

ABSTRACT OF THE DISCLOSURE

A switch circuit formed on a semiconductor substrate, comprising: a first terminal to which a signal of transmission object is inputted; a second terminal from  
5 which a signal of transmission object is outputted; a first transistor formed in a first semiconductor region in said semiconductor substrate, which has one of a source and a drain terminals connected to said first terminal and another thereof connected to said second terminal; a control circuit  
10 which controls a gate voltage of said first transistor; and a first rectifying element which has an anode terminal connected to said first terminal, a cathode terminal connected to a power supply terminal of said control circuit, said first rectifying element being formed in a second  
15 semiconductor region in said semiconductor substrate separate from said first semiconductor region.